

# VOLUME INDEX

January to December, 1945

Volume Thirteen

TO facilitate the location of articles which have appeared in THE REFRIGERATION SERVICE ENGINEER, this index is a regular feature in each December issue, serving as a ready reference of the articles and subject matter which have appeared in the preceding twelve issues. The figure following the date of issue refers to the page on which the article will be found.

## A

- Air Conditioned Candy Cabinet.....June-62
- Conditioned Spiders on War Jobs.....Mar.-48
- Conditioned Trolley Coach Introduced in Atlanta.....Sept.-48
- Conditioning Increases Plane Production.....Mar.-52
- Conditioning Industry Predicts Huge Post-war Expansion.....June-43
- Airtemp Conditioners, Installation and Operation of.....Sept.-27, Oct.-25, Nov.-25, Dec.-31
- ASRE Cancels Spring Meeting.....May-50
- Headquarters Moved.....May-52
- Holds Annual Meeting.....Jan.-44
- to Publish Abstracts.....Feb.-48
- Appliance Stores, G. E. Suggests Layout For.....Nov.-52
- Army Operates Refrigerated Storage in Normandy Cave.....Apr.-38
- Refrigeration Specialists Study Food Service Program.....Apr.-40
- Refrigeration Units Demonstrated at Food Service Conference.....Mar.-46
- Avco Takes Over Crosley.....Aug.-64
- Compressor Group Forms New REMA Division.....May-68
- Condensing Unit Manufacturers Appeal to WPB in Reconversion Program.....July-25
- Complete Organization Group.....July-60
- Converting Mills Ice Cream Cabinets to Farm Freezers by L. K. Wright.....Jan.-24
- Coolers at Supply Outposts.....Jan.-39
- Copper Production, Deficit of.....May-52
- Cylinder Regulations, Jobbers Complying with I.C.C.....Sept.-50

## D

- Data, How to Submit by R. L. Hendrickson.....June-31
- Dehydration of Refrigeration Parts with Air by R. L. Hendrickson.....Apr.-23
- Design Factors of the Commercial Hermetic by Carl Olin.....July-30
- Determining the Rate of Service Charge.....Nov.-42
- Dispatcher, The.....Nov.-58, Dec.-88
- Domestic Refrigerator of the Future.....Feb.-35
- Domestic Service Streamlined by Commercial Service Company by Robert Laitmer.....Apr.-35

## B

- Book Review:
  - Drake's Heating, Cooling and Air Conditioning Handbook.....Oct.-35
  - Electrolytic Capacitor.....Sept.-46
  - Lessons in Arc Welding.....Dec.-54
- Building Contractor Charged with Diverting Units.....Feb.-50
- Bush, John, Opens Own Service Business.....June-66
- Business for Yourself, So You Want to Get Into, by Paul B. Reed.....Jan.-27, Feb.-30, Mar.-30, Apr.-26, by Harry D. Busby.....July-26, Aug.-27, Sept.-23

## C

- Census Bureau Report, Shipments of Commercial Air Conditioning and Refrigeration Equipment-1944.....Sept.-33
- Central States Refrigeration Supply Jobbers Meet.....Mar.-72
- Charge, Service, Determining Rate of.....Nov.-42
- Cheap Competition.....Sept.-19
- Cleveland Electrical League Discusses Air Conditioning.....Jan.-38
- Code, New Refrigeration, Detroit, Excerpts from.....Oct.-52
- St. Louis Building, Refrigeration Section.....Aug.-45
- Coldspot Electric Refrigerator, Construction, Operation and Servicing.....Jan.-20, Feb.-26, Mar.-26, Apr.-29, May-28, June-32, July-35, Aug.-37
- Commercial Air Conditioning and Refrigeration Equipment-1944 Shipments.....Sept.-33
- Commercial Refrigeration, University Offers Extension Course in.....Jan.-29

## E

- Electronic Device Speeds Defrosting of Frozen Produce.....July-50
- Excerpts from Detroit's New Refrigeration Code.....Oct.-52
- "Extra Touches" in Domestic Refrigeration Service by Robert A. Laitmer.....Nov.-45

## F

- Fall of Germany May Increase Refrigeration Demand.....Apr.-50
- Farmer Knows Value of Refrigeration.....Apr.-43
- Farm and Home Freezers Association Meeting.....Mar.-52
- Farm Freezers, Converting Mills Ice Cream Cabinets.....Jan.-24
- Floating Refrigerator of Concrete Aids Pacific Invasion.....May-36
- Floods and Water Shortage.....July-54
- Food Stores Plan to Buy Refrigeration Equipment.....May-36
- Fountain Manufacturers Organize.....Aug.-68
- Freeze First-of-the-Season Vegetables.....Sept.-46
- Frigidaire Advanced Training Course for Servicemen.....Jan.-42
- New, Comes Off Line.....Aug.-62
- Frozen Dough, Neighbor Baker Sells.....Aug.-40
- Food Cabinets in Postwar Stores.....June-46
- Foods Cabinet, Self-Service.....Feb.-48
- Food Institute, Department Stores Form.....May-50
- Future of Refrigeration Service.....Dec.-42

## G

- G.E. Suggests Layout for Appliance Stores.....Nov.-52

# GOVERNMENT BUREAUS—NEWS AND RULINGS:

Appliances Exempted From Inventory Restrictions	Nov.—24
Applications for Construction and Equipment	June—22
Backlogs Delay Flow of Products to Civilian Users	Aug.—24
CMP Regulation 9A Amended	Mar.—20
9A Tightened	May—22
9A Tightened	June—24
9A and Order P-126 to Expire September 30	Sept.—35
California Repair Shops Must Itemize Repair Bills	Aug.—66
Carbon Dioxide Gas, WPB Considers Allocation Order	Apr.—21
Ceiling Price Adjustments for Electrical Controls	Apr.—22
for New Refrigerators	Oct.—48
on Small Motors Raised	Oct.—48
Civilian Items Held to 1944 Level	Jan.—18
Condensing Units and Materials	Apr.—21
Construction Order L-41 Amended	June—23
Conventions Are Restricted	Feb.—20
Copper Wire, Methods of Obtaining	June—23
Dealer's Priority Suspended	Feb.—48
Deferment Method for Refrigeration Repairmen Quick Action Essential	Mar.—56
Deferment Status of Key Employees, No Changes in	June—60
Discontinuance of Priorities Forecast for Civilian Production	July—22
Distribution of Household Refrigerators Still Restricted	Sept.—35
Electric Motors Still Critical	Mar.—19
Evaporative Coolers Eligible for Price Increases	Apr.—21
Fluorspar Still Scarce	Mar.—20
Fractional Horsepower Motors	Jan.—17
Freon Production Increased	Feb.—19
Restrictions Lifted	Apr.—20
Restrictions Off	May—22
Goods May Return to Civilian Markets	Apr.—22
Hand Tool Supply	July—24
Ice Refrigerator Production, Delivery of Materials Will Delay	Jan.—18
It's Getting Tough Again	Feb.—19
L-38 Revoked! Now What?	June—20
Limitation Order L-5-D Revoked	Oct.—48
Limited Priorities Assistance for Manufacturers for Last Half of 1945	July—23
Materials Released to New Manufacturers	June—24
Maximum Refrigerator Prices in Canada	Mar.—20
Mechanical Refrigerators Scheduled; Repair Parts Have Preference	June—21
More Copper Available	Aug.—26
Motor Limitation Order Revoked	Aug.—25
Motor Makers Given More Time to Order Parts	Mar.—19
Motor Procurement Explained	Feb.—20
New Regulations for Prewar Refrigerators	Oct.—50
Newcomers to Receive Production Materials	July—24
No New Condensing Units or Low Sides Ratings Allowed Under P-126	May—22
No Supplemental Allocations	July—23
No Tin for Current Reconversion	Aug.—25
OPA Asks Injunction Against Repair Firms	Jan.—46
Cites Cincinnati Firm	May—44
Rulings, J. P. Holds Invalid	Mar.—50
Order L-38	Feb.—19
P-price Control of Repairs Based on Hourly Rate	May—21
Priorities Assistance for Production of Mechanical Refrigerators	July—23
Production of Small Motors	July—24
Ratings for Mo or Repair	July—24
Reconversion Policies Amplified	June—22
Reconversion Policy Announced	Apr.—20

# Government Bureaus, Continued:

Records on Sales of Government Surplus Property	Apr.—22
Refrigerated Display Cases	Mar.—19
Refrigeration Production Increased, Authorization of	Aug.—25
Refrigerators to be Sold Only to Most Essential Purchasers	May—20
Spot Authorization Plan Restored	May—21
Spot Authorization Production for Last Quarter	Apr.—21
Tire Allowances Reduced	Jan.—18
Tire Scarcity, Warns of	Apr.—20
Trucks, Motor, Supply Drastically Reduced	Jan.—17
Trucks, Other Items Released—Industrial Construction Unlimited	Sept.—35
Wage or Salary Rate Increases	Jan.—18
WPB Allocates Materials for Refrigeration Repair Parts	May—21
War Production Comes First	Jan.—17
Government Charges Diversion of Cooling Units	June—24
Government Loans, New Policies to Manufacturers	June—25
Guesswork Eliminated in Freezing Plants	Feb.—50
Gun Turrets Tested in Stratosphere Chamber	Mar.—72

## H

Hansen, Frank, Arrives in U. S.	June—62
Heat Pump Idea 93 Years Old	Apr.—28
Home and Farm Freezers by C. W. Stoner	Apr.—56
Ready for Expanded Market	Oct.—29
Home Built Farm Refrigeration	Mar.—50
Home Freezer Market Exaggerated Says Frigidaire Head	Jan.—40
Lockers to Sell	June—44
and Coolers, Maximum Prices	Aug.—26
Westinghouse	June—56
Hood, F. J., New REMA President	June—86
Hurricanes in a Vacuum	Apr.—50

## I

Ice Cream Cabinet Standardization, Consider	Mar.—72
Industry Starts Rolling, The	Oct.—36
Installation and Servicing of Refrigerating Equipment by S. A. Cole	June—26

## J

Jobber in Modern New Store	Apr.—39
Modernizes Store	Feb.—52
Jobbers Association Votes Name Change	Nov.—52

## K

Kelvinator Builds First Ice Cream Cabinets Since 1942	Sept.—42
Kromer, W. R., Chairman N.R.S.C., Submits Resignation	May—27
Report Shows Manpower Shortage	Apr.—50

## L

Locked Rotor Rating for Residential Service	Nov.—52
Locker Association Predicts 5,000 New Plants	June—64
Plant Being Built by R.S.E.S. Member	June—66
Plant, Experimental, Opened in Ithaca, N. Y.	June—45
Low Temperature Refrigeration, Some of the Problems by S. R. Hirsch	Feb.—21

## M

Manpower, Critical Commodity.....	Feb.—25
Massachusetts Extension Offers Courses in Refrigeration.....	Sept.—50
Measuring Kink, An Accurate.....	Aug.—64
Mechanical Refrigerators, Consumer Demand High for.....	June—62
Merger of Sunbeam and Segar Proposed.....	May—52
Mills Ice Cream Cabinets, Converting to Farm Freezers.....	Jan.—24
Mills Freezer Servicing.....	Mar.—43
Milwaukee May License Service Men.....	Mar.—48
Model, Model—Who Can Find the Model Number.....	Aug.—66
Motor Pulleys Need Improving by <i>W. E. Patten</i> .....	Nov.—33

## N

National Refrigeration Service Council Dissolves.....	June—86
Service Council Recognizes Contributions Made by Government Bureaus.....	July—56
Supply Jobbers Association Appoints Full Time Secretary.....	Jan.—46
Supply Jobbers Association Opens Cincinnati Office.....	Feb.—50
Naval Training School Closes—Transferred to Norfolk.....	Aug.—60
Nevada Survey Shows Big Market for Refrigerators.....	May—44

### NEW AND IMPROVED APPLIANCES

Adjustable Capillary Tube.....	Dec.—72
Armstrong Wheel Puller.....	June—82
Blue Flash Coolers Return.....	Dec.—70
Charging Hose and Connections.....	Sept.—68
Charging Line for Refrigerants.....	Oct.—62
Cold Water Faucet.....	Oct.—60
Copper Plating on Aluminum.....	Apr.—84
Cutting Tool Grooves Plastic.....	Dec.—68
Drill Grinding Jig.....	Feb.—64
Easy Reciprocating Electric Sander.....	Oct.—60
Electrode Holder.....	Jan.—60
Electronic Relay Controls 30 Ampere Outputs.....	Aug.—80
Flexigrip Tubing Fitting.....	Dec.—72
Frigidaire Home Freezer.....	Dec.—70
Frozen Food at Touch of Button.....	Nov.—70
Heat Dissipating Unit.....	Nov.—70
High Capacity Portable Insulation Tester.....	Apr.—84
Home Freezers, New, Announced by Westinghouse.....	Aug.—80
Hose Clamps, Stainless Steel.....	Jan.—60
Hydraulic Packing.....	July—72
Improved Test-Lite.....	Nov.—72
Kaynar Anchor Type Lock-Nut.....	Oct.—60
Logan Quick Change Gear Cabinet Lathe.....	Feb.—64
Machinist's Vice.....	July—72
Mills Direct-Drive Compressor.....	Oct.—62
Miniature Oiler.....	Nov.—72
New Air Duct.....	Dec.—72
New Low-Priced Welder.....	Dec.—68
Nip-Grip.....	Nov.—72
Oil, Removing from Refrigerant Gas.....	June—84
Paint Remover.....	Jan.—60
Pilot Control, Flocheck.....	July—72
Pneumatic Hammer for Metal Working.....	Sept.—68
Recording Thermometers, Portable, Again Available.....	July—72
Self-Locking Driv-Lok Pins.....	June—82
Synthetic Resin Adhesive.....	Jan.—60
Tachometer, Standard Machinery Co.....	Feb.—64
Tape, No Drip, Condensation Drip Stopped by.....	June—82
Thermostatic Expansion Valve.....	Nov.—70
Tools, Flexible Shaft, for Corners.....	June—82
"Trap-Dr" Combines Fitter and Dryer.....	June—84
Unit Helps Preserve Freshness of Foods.....	Apr.—84
Visiolek Tag Instructs Owners.....	June—84
Water Coolers Back in Production.....	June—84
Wheel Puller, Armstrong.....	June—82

New Locked Rotor Rating for Residential Service.....	Nov.—52
--	---------

## O

Opportunity of Sales Through Service, The, by <i>W. A. Matheson</i> .....	Nov.—21
Over-Fusing Causes Fires.....	July—54

## P

Pacific Icebox Preserves Food for Fleet.....	Aug.—66
Plastic Tubing for Soda Fountains.....	Nov.—58
Power from Atomic Energy.....	Sept.—42
Predictions and Trends for 1945.....	Jan.—19
Price Regulation on Used Refrigerators Amended—Later Models Added.....	Aug.—32
Prince of Iraq Selects American Hunting Lodge on Wheels.....	Nov.—56
Priority Merchandising Plan Has Its Drawbacks.....	Apr.—39

## Q

Quartermaster Corps Develops Portable Ice Cream Machine.....	Apr.—45
Develops Portable Refrigerator.....	Sept.—48

### QUESTIONS AND ANSWERS:

Acid for Cleaning Stuck Compressor.....	May—35
Aluminum in Older Models.....	June—52
Apex Used Universal Cooler.....	July—39
Beer, Trouble in Drawing.....	June—50
Broken Compressor Valves.....	June—47
Capacity Based on Suction Pressure.....	May—35
Capillary Tube Oversize.....	Nov.—64
Tube Sizes.....	June—52
Carbon Dioxide for Drying.....	May—34
Carbon-Tet in SO <sub>2</sub> .....	Dec.—41
Change to F-12 Unbalances Seal Spring.....	Oct.—42
Changes from SO <sub>2</sub> to Methyl.....	Mar.—42
Changing Frigidaire from Water to Air Cooled.....	July—44
Multiple System from SO <sub>2</sub> to F-12.....	Aug.—52
to Automatic Expansion Valve.....	Jan.—35
to Direct Expansion.....	May—35
Cleaning and Converting Stuck System.....	Oct.—43
Coil Arrangement in Cooler.....	Feb.—36
Comments on Question 545.....	Feb.—36
Question 629.....	Jan.—34
Question 636.....	Feb.—36
Question 641.....	May—33
Question 651.....	May—33
Question 659.....	June—47
Question 670.....	Aug.—52
Comments on Question 719.....	Dec.—40
Condensing Unit, Operating One in a Parallel Hook-Up.....	June—47
Connecting for F-12 Transfer.....	May—34
Converting Ice Box to Mechanical Refrigerator.....	June—50
Cooler Calculations.....	Aug.—52
Copeland, Brine for.....	June—54
Brine Tank Solution.....	Feb.—39
Correction for Question 644.....	Apr.—41
Cross Connecting Units.....	Sept.—38
Dayton, Parts for.....	June—50
Dead Spots in R. I. Motors.....	Mar.—39
Defrosting Fin Coils.....	Aug.—58
Dehydrating Majestic.....	Aug.—52
Delphos Parts Not Made.....	Mar.—39
Display Case Will Not Work.....	Apr.—42
Drying Oven.....	July—39
Egg Storage Conditions.....	Aug.—56
Evaporator Frost Problem.....	Jan.—35
Trouble on Multiple System.....	July—39-42
Expansion Valve Location in Frozen Food Cabinet.....	Apr.—42
Servel Hermetic.....	Nov.—68
Extreme Condenser Cooling.....	Feb.—39
False Sight Glass Reading.....	Feb.—39
Fedders Float, Removing.....	July—42
Find the Leak!.....	Aug.—54

## Questions and Answers, Continued:

Freezer Problem .....	June-54
Grunow Erratic Operation .....	Apr.-41
Evaporators Will Not Hold Higher Pressures .....	Aug.-54
Transformer, Check .....	Sept.-39
High and Low Temperature Units Are Same Design .....	July-44
High Head Pressure After Long Shut-Down .....	Sept.-38
Continuous Running, and .....	Oct.-43
High Pressure Bellows Cracks .....	Aug.-56
Ice Cream Hardening Problem .....	Jan.-34
Improper Carrene Meter .....	Nov.-68
K Factor of Coils and Headload Figures .....	July-39
Kelvinator Brine Tank System, Adjusting .....	June-52
Leak Causes High Head Press. ....	Sept.-39
Majestic Stuck .....	June-54
Mold in Cooler .....	May-34
Montgomery Ward Pump Oil .....	Dec.-40
More Information on Question 641 .....	Mar.-39
on Question 687 .....	Oct.-42
Norge Change-Over Problems .....	Apr.-42
Should Cool 80 Cubic Foot Refrigerator .....	Oct.-46
Two-Temperature Charge .....	Jan.-35
Oil Problem in Multiple Unit Installation .....	Mar.-42
Operating Head Pressure .....	Feb.-39
Perpetual Motion—Almost .....	Nov.-64
Plate Coil Defrosting .....	Aug.-58
Pressure Test with CO <sub>2</sub> and F-12 .....	May-33
Purifying Methyl Not Practical .....	Feb.-38
Reaction of Galvanized Pipe in Ammonia System .....	Jan.-34
Refrigerant Not Identified by Switch Setting .....	Nov.-66
Used in Crosley .....	Apr.-42
Remodeling Majestic .....	Aug.-58
Removing Lenses from Pitch After Freezing .....	Oct.-46
Silica-Gel Dryer on Sulphur Dioxide System .....	July-42
Sweating on Freezer Walls .....	Oct.-43
Testing Shell and Tube Condenser .....	Aug.-58
Thermal Unit No Longer Made .....	Oct.-42
Trouble After Repairs on Grunow Are Made .....	Oct.-46
Uneven Temperatures in Frigidaire I. C. Cabinet .....	Feb.-37
Units Not Rated in Cubic Feet .....	May-33
Universal Cooler Trouble .....	Dec.-40
Valve Capacity Rating .....	Nov.-64
Trouble on Freezer .....	Nov.-66
Ward Unit, Who Made? .....	Feb.-38
Water Freezes in Philco Thermostat .....	July-44
Welsbach Service .....	June-54
When to Change Dryer .....	Apr.-41

## R

Rasor, Emerson E. Meets Death in Plane Crash .....	Feb.-50
"Rebuilds" Builds Customers .....	Jan.-32
Reed, Paul, Appointed Council to Office of Chief of Engineers .....	May-52
Refrigerants—Physical and Refrigerating Properties, by Gay R. King .....	Nov.-35, Dec. 28
Refrigerating Equipment, Installation and Servicing by S. A. Cole .....	June-26
Refrigeration and Aircraft to Make New Fresh Foods Available .....	Nov.-51
REMA All Industry Exhibit Set for Cleveland, October 1946 .....	Sept.-66
Fall Conference Attracts Record Attendance .....	Dec.-52
Hood, New President .....	June-86
Observes Tenth Anniversary .....	Aug.-78
Starts Public Relations Program .....	June-68
Refrigeration Heat Loads, The Problem Is, by R. L. Hendrickson .....	May-24
Mechanic Tells About Service Overseas .....	Jan.-33
Motors, Fundamental Maintenance and Operation by J. A. McDonald .....	Sept.-31

Parts to Provide Huge Postwar Market .....	July-58
School Opened by Navy .....	Sept.-42
Section Included in New St. Louis Building Code .....	Aug.-45

## REFRIGERATION SERVICE ENGINEERS SOCIETY:

Birmingham Chapter Petitions for Charter .....	Feb.-54
Receives Charter .....	June-70
Chapter Directory .....	Sept.-52
Chapter Notes .....	Jan.-54, Feb.-54,
Mar.-64, Apr.-78, May-56, June-70, July-66, Aug.-72, Sept.-60, Oct.-64, Nov.-82 .....	Dec.-58
Chapters in the Making .....	July-62
Chicago Chapter Has Picnic .....	July-62
Cleveland Chapter Has Active Publicity Committee .....	May-54
Driskell, J. L., Overcome by Fumes .....	May-66
Goldberg, Herman, Party .....	Jan.-46
Houston Chapter Closes Charter .....	Jan.-52
Receives Charter .....	June-70
Illinois Association, Officers and Board Meet .....	Jan.-50
Illinois State Association Plans Fall Meeting .....	Aug.-72
8th Annual Convention .....	Nov.-76
Interprovincial Association Approves Apprenticeship Act .....	Sept.-56
Completes Plans for Annual Meeting at Montreal .....	Feb.-54
Meeting to be Held March 18-19 .....	Jan.-50
Conference, Annual .....	Apr.-52
Conference, Home and Farm Freezer, by C. W. Stoner .....	Apr.-56
Conference, Progress Service from 1920-1945, by Paul Reed .....	Apr.-62
Key City Chapter Gets Charter .....	Apr.-78
Ladies Auxiliary .....	Jan.-58, Feb.-60,
Mar.-70, Apr.-82, May-66, July-70, Aug.-78, Sept.-66, Oct.-77, Nov.-86 .....	Dec.-
Lilley & Son .....	Sept.-66
Massachusetts State Association Forms New England Group .....	Jan.-52
Miami Chapter Charter Presentation .....	Nov.-81
Mile High Chapter Badges .....	Feb.-54
Milwaukee Chapter Petitions for Charter .....	Jan.-50
Monterey County Chapter Formed .....	May-56
New Chapter in St. Petersburg, Florida .....	Oct.-64
New Chapters Petition for Charters .....	July-64
Receive Charters .....	Sept.-66
New England Chapters, Officers Meet .....	May-56
States Association Formed .....	July-62
States Association Meet .....	Nov.-80
Plesskott, E. A., Retires As R.S.E.S. President .....	Feb.-52
Progress Service from 1920-1945 by Paul Reed .....	Apr.-62
Sacramento Valley Chapter Formed .....	May-56
San Diego Chapter, Cooperative Advertising .....	Mar.-62
Waterbury Area Petitions for Charter .....	Mar.-62
Chapter Charter Meeting .....	Nov.-74
Wisconsin State Association Organized .....	Mar.-64
Picnic Scheduled .....	July-62
Starts District Meetings .....	May-54
Youngstown Chapter, Public Service and Education Activities .....	Mar.-62
Refrigeration Service Has Grown Up by E. A. Seibert .....	Aug.-23
Service Men, Washington Requested to Defer Essential .....	May-27
Service School Completes First Year .....	Apr.-25
Shop, Cebu .....	June-64
Refrigerator Dealers Admit OPA Charges .....	Aug.-66
on Wheels .....	July-54
Owners Making Mistake by Neglecting Repairs .....	July-52
Rebuilt by G.I.'s on Leyte .....	Mar.-50
Refrigerators, First New, Going to Dealers .....	Dec.-23
Floors .....	Dec.-23
Relation of Humidity to Practical Refrigeration .....	Nov.-29
Room Coolers, Sell on Trial Basis .....	Aug.-31
Ruxton's Refrigeration "Rebuilds" .....	Jan.-32

# S

Sacramento Schools Offer Refrigeration Training.....	Aug.-68
San Antonio Committee Drafts Ordinance.....	May-38
San Francisco Jobbers Meet.....	May-68
Seabees, Army Troops Pledge Friendship with Ice Water.....	May-31
Selecting Evaporator and Condensing Unit by D. D. Orr.....	Mar.-33
Self-Service for Frozen Food Buyers.....	Apr.-37
Sell or Go Bust by Harry Boyd Brown.....	Nov.-46
Selling Service with Service by Grier Lowry.....	Nov.-43
Service Behind the Servicemen.....	Oct.-23
Company Employs G.I.'s.....	July-34
Council Presents Testimonial to Paul McNutt of WMC.....	Mar.-60
Engineer Is Good.....	Mar.-29
Engineers Needed on Army Vessels.....	Oct.-35
Improvements Advisory Committee Undertakes Important Work.....	Apr.-47
Managers Express Concern Over Shortage of Trained Personnel.....	Mar.-54
<b>SERVICE POINTERS:</b>	
Adjusting Hot Wire Relay.....	Mar.-37
Automatic Belt Tightener.....	Feb.-34
Bellows Seal Repairing.....	Aug.-44
Capacitor Motor Testing Device.....	Mar.-38
Capillary Tube for M-W High Side Float.....	Apr.-34
Case of the Oscillating Pump, The.....	Dec.-38
Changing to Expansion Valve on Ward Unit.....	Mar.-38
Charging Sealed Units without Valve Kit.....	July-48
Checking the Charge in the Grunow-Adding Carrene.....	Feb.-33
Cleaning Copper and Brass.....	Feb.-34
Internal Strainer.....	May-32
Water Cooled Condenser.....	Sept.-37
Cold Pot for Cold Controls.....	Dec.-39
Coldspot Noise Elimination.....	Mar.-37
Oil Drain Pan.....	July-48
Valve Lapping and Cage Replacement.....	Apr.-33
Compressor Screen Plugged.....	June-40
Condenser Pressure Reduced.....	Feb.-33
Control Remodeling.....	June-39
Converting Frigidaire N & W to Methyl Chloride.....	Nov.-60
Cotter Pin Tool.....	Apr.-33
Dehydrating Method.....	Sept.-36
Economical Transmission for Remote Circuits.....	Apr.-33
.....	Sept.-36
Emergency Motor Mounts.....	Aug.-44
Emergency T.E.V. Operation.....	Jan.-31
Expansion Valve Bellows, Preventing from Freezing.....	May-32
Finding That Leak in Graybar.....	Oct.-40
Float, Defective, Works Automatic Expansion Valve.....	Sept.-37
Fluids for Air Conditioner Filters.....	June-39
Gaskets Cause Stuck-Up Compressor.....	Oct.-40
Gauge Reading May Be Misleading.....	May-32
Grunow Motor and Starter Trouble.....	Mar.-38
Obstructions.....	Sept.-36
Ingenuity Saved the Day.....	Nov.-41
Low-Temperature Hook-Up for Standard T.E.V.....	Feb.-34
Moisture in Grunow.....	June-40
Not Always the Trouble.....	May-32
More on Condenser Auxiliary.....	Oct.-40
Moving Refrigerator Without Damaging Floor.....	Feb.-33
Muriatic Removes Calcium.....	Nov.-60
Oil Logging Stopped in Low-Side Float Evaporators.....	Apr.-34
Open Valve With Torch.....	Nov.-62
Overcoming High Pressure on Air Cooled Machines.....	Aug.-44
Points to Observe in Grunow Service.....	Nov.-60
Portable Drying Unit.....	Aug.-43
Prest-O-Lite Tank Adapter.....	June-39
Preventing Valve Freeze-Up While Removing Moisture.....	Jan.-30

# Service Pointers: Continued:

Reconditioning the Inner Commutator Face.....	Apr.-34
Removing Broken Cap Screws.....	Jan.-30
Removing Oil from Evaporator.....	Sept.-37
Repair of Electric Motor.....	Oct.-41
Repairing or Remodeling Carrene Motors.....	Apr.-34
Grunow Compressor.....	July-46
Rigid Vise Support.....	Jan.-48
Roller Bar for Heavy Moving.....	Jan.-30
Service Valve for Ward Unit.....	Mar.-37
Simple Twist of Wrist Repairs Motor.....	Oct.-40
Spring Handling Tool.....	Jan.-31
Stewart-Warner Diagnosis.....	Aug.-44
Substitutes for Hard-to-Get Rubber.....	July-46
Testing Equipment.....	Dec.-39
Testing Grunow Units.....	Nov.-62
Turn the Hinge Over.....	Jan.-31
Utilizing Worn Motor Brushes.....	Aug.-43
War-time Substitution.....	Aug.-43
Service Today for Sales Tomorrow by P. V. Sprout.....	Sept.-21
Servicing the Mills Freezer by A. M. Sorin.....	Mar.-43
Shipbuilders Study to Become Refrigeration Service Men.....	Feb.-46
Showmanship Will Be Needed to Sell Refrigerators in Potswar Market by Robert Latimer.....	June-41
So You Want to Get Into Business for Yourself by Paul B. Reed.....	Jan.-27, Feb.-30, Mar.-30, Apr.-26
by Harry D. Busby.....	July-26, Aug.-27, Sept.-23
Soldiers Plan for Future.....	Dec.-52
Southwest Jobbers Meet.....	Feb.-42
Sterilamp, Use of, for Perishable Foods.....	Jan.-41
Suction Pressure on Airtemp Equipment.....	Mar.-21
Survey on the Service Business by H. D. Busby.....	May-50
Shows Banks Plan to Supply Consumer Credit.....	Aug.-26
Suspension Order Issued Against Refrigeration Contractor.....	Aug.-26

# T

Testing Laboratory to Weatherproof Planes.....	June-64
Trade Practice Rules, Proposed, Made by Federal Trades Commission.....	July-54
Training Course for Servicemen.....	Jan.-42
Films on Service Now Available.....	July-54
Trip Through Deep Sleep, A.....	Dec.-36

# U

U.S. Patents of Enemy Aliens Offered for License.....	Apr.-32
University Offers Extension Course in Commercial Refrigeration.....	Jan.-29

# W

WPB Issues Suspension Orders Against Refrigerating Concern.....	July-52
WPB Suspends Firm.....	Apr.-50
Warton School in England.....	Dec.-35
Westinghouse Announces Home Freezers.....	June-56
Film Shows Service Methods.....	May-46
Opens Conservice Schools.....	Apr.-46
Refrigerator Models.....	Aug.-62
Why the Motor Doesn't "Jump".....	Aug.-64
Wright Has Charge of Refrigeration School.....	Feb.-46

# Y

Yakima Dealer Advocates Neighborhood Location.....	Sept.-46
Yanks Have Ice, Thanks to Japs.....	Feb.-42
YMCA Schools Announce Courses in Refrigeration.....	Apr.-46

# INDEX OF ILLUSTRATIONS

## A

Adapter, Tank .....	June—39
Advertisement, Telephone Directory, San Diego Chapter .....	Mar.—62
Aeroquip Hose Fittings .....	Sept.—68
Aero-Seal Stainless Steel Hose Clamps .....	Jan.—60
Airtemp Conditioner .....	Nov.—26
Models .....	Sept.—27-28-29
Trouble Check Chart .....	Jan.—41
Airtron Air Duct .....	Dec.—72
Alaska Electric Light and Power Store .....	Sept.—76
Alter, Harry and Kromer, Ray .....	July—56
Alter, Major Arthur .....	Dec.—74
Alter Presents Mansure with Crosley Franchise .....	May—70
Arc Welder .....	Dec.—68
Army Freezer, Gilder-borne .....	Mar.—46
Outpost Cold Storages .....	Jan.—39
ASRE Luncheon .....	Jan.—44

## B

Badge, Mile High Chapter .....	Feb.—54
"Bantam Bully" Pneumatic Hammer .....	Sept.—68
Birmingham Chapter Banquet .....	July—70
Blueflash Cooler .....	Dec.—70
Brown Instrument Co., Veterans Accept Army-Navy Award .....	Mar.—76

## C

Cartoon (Ammons) .....	Mar.—36, Apr.—19, June—40, July—21, Aug.—21, Sept.—37
Cartoon—Capacity of Unit .....	Apr.—36
"Could I Show You Something Really Nice in a Refrigerator?" .....	Oct.—41
"Needs Defrosting!" .....	Nov.—62
Charging Rack for Service Drums .....	Sept.—26
Valve and Gauge Assembly .....	Oct.—28, Nov.—27
Chart, Compressor-Evaporator Balance .....	Mar.—35
Showing Heat Load .....	May—26
Chicago Chapter at Liquid Carbonic .....	June—74
Chilton, Bill, Oil Capital Chapter Picnic .....	Nov.—85
Cleveland Chapter Attendance Card .....	May—54
Christmas Party .....	Jan.—56
Coldspot Electric Refrigerator, Construction, Operation and Servicing .....	Jan.—20-22-23, Feb.—26, 28-29, Mar.—27-28-29, Apr.—29-30-31-32, May—29-30-31, June—34-35-36-37-38
Oil Drain Pan .....	July—48
Valve Lapping and Cage Replacement .....	Apr.—33
Cold Water Faucet .....	Oct.—60
Conditioner, Descriptive photograph showing location of parts referred to in text .....	Oct.—26
Electrical Wiring Diagram for Single Phase, Model 3-SCD .....	Oct.—27
Electrical Wiring Diagram for the 2-phase and 3-phase, Models 3-SCD and 5-SCA .....	Oct.—28
Copeland Compressor for Air Conditioning Installed Inside an Attractive Cabinet Base .....	Nov.—56
Cutting Tool for Plaster .....	Dec.—68

## D

Dawson, Richard S. and Gary, Charles V. .....	Oct.—84
Dayton Chapter Officers and Picnic .....	Oct.—70
Dehydrating Oven, Construction Details .....	Aug.—29
<b>DIAGRAMS AND DRAWINGS:</b>	
Automatic Belt Tightener .....	Feb.—34
Cleaning Process .....	Aug.—29
Coil Arrangements .....	Feb.—37
Condenser Pressure Reduced .....	Feb.—33
Control Panel for Farm Freezer .....	Jan.—25
Cross Connecting Units .....	Sept.—38
Dryer .....	Feb.—36
Mills Freezer Servicing .....	Mar.—43

Motor Brush .....	Jan.—31
Oil Problem in Multiple Unit Installation .....	Mar.—42
Removing Broken Cap Screw .....	Jan.—30
Shop Arrangement .....	Sept.—25
Shop Layout .....	Sept.—26
Spray Booth .....	Aug.—31
Displacements of Common Refrigerants Graph .....	Nov.—39
Domeire Unit—About 1914 .....	Apr.—64
Driv-Lok Pin, Self-Locking .....	June—82
Drying Unit, Portable .....	Aug.—43
Dual Compressor Hook-up .....	June—47

## E

E-Z Holder .....	Feb.—64
Easy Electric Sander, Model XL50 .....	Oct.—60
Electronic Relay .....	Aug.—80
Expansion Valve .....	May—32

## F

Farm Storage and Freezer Room .....	Apr.—43
Flexigrip Coupling .....	Dec.—72
Flocheck, New Pilot Control .....	July—72
Floro Flotube .....	Dec.—72

### FREEZERS, HOME AND FARM:

Amana .....	Oct.—33
Ben-Hur .....	Apr.—58, Oct.—33
Coolerator .....	Oct.—34
Esco Cabinets (Model FTD-24) .....	Oct.—32
Frigidaire .....	Dec.—70
Frigid-Freeze .....	Oct.—33
Frosted Food-O-Mat .....	Nov.—70
Harderfreez .....	Oct.—30
I.C.A. Goldmaster .....	Oct.—31
Pak-A-Way .....	Oct.—32
Portable Freez-All .....	Oct.—30
Quillen .....	Oct.—34
Sanitary Quicfreez Model 1244 .....	Oct.—29
Steinhorst .....	Oct.—34
Weber Roll-A-Door .....	Oct.—31
Westinghouse .....	June—56, Aug.—82
Wilson .....	Oct.—32
Freez-O-Mat .....	Apr.—37
Frigid Dough Bakery Salesroom .....	Aug.—40-41
Frigid Dough Cooler Room .....	Aug.—42
Frigidaire, First Since 1942 .....	Aug.—62
Managers, "Viso-Trainer" .....	Jan.—42
Unit—About 1923 .....	Apr.—66
Frozen Food Cabinet .....	June—46
Frozen Food Cabinet, Self-Service Made by Hussmann .....	Feb.—48

## G

General Controls Plant .....	Apr.—88
General Electric Suggested Appliance Store Layout .....	Nov.—54
Goldberg, Herman, Christmas Party .....	Jan.—48
Golden Gate Chapter Meeting .....	Sept.—64
Grunow Capillary Tube .....	Apr.—34

## H

Heat Dissipator .....	Nov.—70
Higgins Appliance Division .....	Feb.—66
Hinshaw, R. L. in his office .....	Oct.—21
Honorable Ali Jawdat and daughter .....	Nov.—56
Hot Wire Relay .....	Mar.—37

## I

Ice Cream Machine Developed by Quarter-master .....	Apr.—45
Installation Layout .....	June—41
Insulation Tester, Portable .....	Apr.—84
Interprovincial Association Officers .....	Apr.—54
Iowa State Association, Formation Meeting .....	June—72

## K

Kansas City Chapter Dinner Dance.....	May-62
Kaynar Lock-Nut .....	Oct.-60
Kelvinator Ice Cream Cabinet.....	Sept.-42
Kelvinator Unit About 1922.....	Apr.-66
Kromer, W. Ray, and Alter, Harry.....	July-56

## L

Lapping a Seal.....	Aug.-28
Lathe, Logan Quick Change Gear Cabinet. Feb.-64	
Lathe with Cabinet.....	Aug.-28
Locked Rotor Motor Test.....	Aug.-30
Locker Plant at Ithaca, N. Y. ....	June-45

## M

Machinist's Vise .....	July-72
Magnolia State Chapter; Newspaper Advertisement .....	May-60
Marine Refrigeration .....	May-37
McCombs Refrigeration Supply Store.....	Aug.-70
Mile High Chapter Annual Dinner.....	Mar.-66
Mills Direct Drive Compressor.....	Oct.-62
Monterey Chapter Charter Presentation Dinner Attendance .....	Nov.-81
Officers .....	Nov.-81
Montgomery Chapter Banquet.....	Jan.-54
Mor-Weld Electrode Holder.....	Jan.-60
Motor-Compressor Unit, Cut-Away View of the 3-HC .....	Nov.-28
Multnomah Chapter Banquet.....	Oct.-68
Temporary Officers .....	Oct.-68

## N

Narco Unit—About 1916.....	Apr.-64
National Refrigeration Service Council Delegates .....	Mar.-60
Ne-O-Lite Test-Lite .....	Nov.-72
Niagara Frontier Chapter.....	May-58
Annual Banquet .....	Sept.-62
Christmas Party .....	Feb.-58
Ladies Auxiliary Charter.....	Sept.-66
Officers .....	Sept.-62
Nip-Grip .....	Nov.-72

## O

Oberg, J. M., and Day, Ralph A. ....	Aug.-84
Oberg Visits Ansol Chemical.....	Sept.-72
Officers, Refrigeration Equipment Manufacturers Association .....	July-58
Oil Capitol Chapter Picnic Views.....	Nov.-85
Oilout, Niagara Blower Co. ....	June-84
Oil-Rite Miniature Oiler.....	Nov.-72

## P

Parts Bins .....	July-29
Portable Refrigerator for Medical Corps.....	Sept.-48

### PORTTRAITS:

Anderson, J. J. ....	Aug.-86
Aulsebrook, W. J. ....	Jan.-66
Bachman, C. J. ....	May-74
Cashin, William .....	Feb.-76
Clothier, Van D. ....	Aug.-84
Coggin, F. G. ....	Apr.-92
Cunningham, Thomas .....	Feb.-74
Davis, G. C. ....	Nov.-90
Davis, R. E. ....	Jan.-66
Dube, John E. ....	Oct.-80
Dunning, N. M. ....	Dec.-74
Emde, Lud. ....	May-76
Farrow, W. T. ....	Aug.-70
Geiersbach, Carlton G. ....	June-90
Gilbert, E. ....	Mar.-78
Haight, E. G. ....	Oct.-82
Haines, John E. ....	Sept.-72
Hess, A. E. ....	Apr.-92
Hood, F. J. ....	June-86
Johnston, John P. ....	Mar.-76
Jones, Austin .....	May-72
Keely, L. C. ....	Feb.-72
King, James .....	Jan.-68
Kingsland, Martyn .....	Dec.-78
Kipp, Roger P. ....	Oct.-80
Kirk, Frank D. ....	Aug.-86
Kyle, E. S. ....	Aug.-82
Lesley, P. Fred .....	May-76

### PORTTRAITS Continued:

Linehan, Lester D. ....	Sept.-70
Lockwood, Charles B. ....	Oct.-80
Logan, Charles R. ....	May-70
Malcolm, H. A. ....	Dec.-80
Marshall, William .....	Apr.-54
Matheson, W. A. ....	Nov.-21
McDougall, Ben M. ....	Mar.-76
McDougall, Franklin M. ....	Oct.-80
Merkle, J. D. ....	Aug.-88
Miller, Marion E. ....	May-74
Moore, Joe .....	May-72
Morgan, Robert W. ....	Sept.-74
Norris, J. A. ....	Aug.-84
Olin, Carl L. ....	Apr.-47
Palmer, Carl J. ....	Aug.-68
Patterson, H. C. ....	May-74
Pedder, J. F. ....	Mar.-78
Plesskott, E. A. ....	Feb.-52
Reed, Paul B. ....	May-52
Robertson, R. C. ....	Sept.-74
Russell, Charles P., The Late.....	Sept.-74
Sagar, Paul B. ....	Jan.-68
Sanders, G. O. ....	Aug.-82
Schenk, John A. ....	Mar.-74
Schlemmer, J. M. ....	Dec.-80
Schroeder, Carl .....	Feb.-68
Seibert, E. A. ....	Aug.-23
Sellers, S. R. ....	May-74
Siegfried, W. A. ....	May-70
Smith, E. M. ....	Aug.-82
Sneath, William .....	Apr.-54
Sommer, E. H. ....	Oct.-23
Sprout, P. V. ....	Sept.-21
Sullivan, Alfred D. ....	June-90
Swaton, J. A. ....	Aug.-84
Van Scoyk, Howard E. ....	June-88
Whipps, C. E. ....	Sept.-76
Whitmore, H. W. ....	Nov.-90
Wilson, Irving A. ....	Feb.-74
Wilson, J. W. ....	Feb.-68

## R

Rebuilding Commercial Job.....	Jan.-32
Refrigerated Cargo Carrier.....	May-37
Refrigerating Unit for Ice Water in South Pacific .....	May-31
Refrigeration Charging Line and Fittings.....	Oct.-62
Refrigeration Shop, Cebu.....	June-64
Refrigerator Demonstration Boards.....	Apr.-46
Refrigerators, New 1946.....	Dec.-23
Roller Bar .....	Jan.-30
Ruthenburg Guest Speaker on Radio.....	May-70

## S

San Francisco Bay Area Men.....	Feb.-46
Jobbers .....	May-68
Seal Repairing Clamp.....	Aug.-44
Servel Supermatic Unit.....	July-32
Cross-Section .....	July-31
Service Shop, Rebuilding Hermetic Units.....	Sept.-24
Valve for Ward Unit.....	Mar.-37
Sign for Captain Storrs.....	Sept.-50
Spring Handling Tool.....	Jan.-31
Springfield Chapter Dedicates Service Flag.....	July-66
Stein, Charles .....	Nov.-44

## T

Tag, Visoleak .....	June-84
Tenite Plastic Case .....	Apr.-84
Tenney Valve .....	Nov.-70
Testing Device, Capacitor Motor.....	Mar.-38
Transmission for Remote Circuits.....	Sept.-36
Trolley, First Air Conditioned.....	Nov.-32

## U

United Commercial Sales Store, Los Angeles .....	Apr.-39
Universal Cooler Corp. Executive Conference .....	Feb.-74
Utilities Engineering Institute Adds Deep Freeze .....	Sept.-70

## W

Westinghouse Conserve Schools.....	Apr.-46
Film .....	May-46

## Advertisers Index

Acme Control Service.....	77
Aerovox Corp. ....	77
Airco Refrigeration Parts.....	87
Airo Supply Co. ....	83
Alco Valve Co. ....	5
Alter Co., The Harry.....	75 and 79
Anderson, John .....	79
Ansul Chemical Co. ....	1
Auto-Diesel Piston Ring Co., The.....	87
Automatic Heating & Cooling Supply Co. ....	83
Automatic Products Co. ....	48 and 49
Blythe Co., H. W. ....	79
Bonney Forge & Tool Works.....	Back Cover
Borden Co., A. E. ....	84
Brunner Mfg. Co. ....	12
Boston Technical Institute.....	86
Chase Refrigeration Supply Co. ....	84
Chicago Seal Co. ....	Inside Front Cover
Chicago-Wilcox Manufacturing Co. ....	86
Commercial Trades Institute.....	81
Davison Chemical Corp. ....	Inside Back Cover
Day & Night Mfg. Co. (Cooler Div.).....	75
Detroit Lubricator Co. ....	2 and 3
Dole Refrigerating Co. ....	73
Du Pont de Nemours & Co., E. I. (Electro-chemicals Dept.).....	8 and 9
Edison Cooling Corp. ....	85
Electromatic .....	71
Flow Controls, Inc. ....	87
G & E Equipment Supply Co. ....	85
General Controls .....	59
Grancell, I. H. ....	86
Hasco, Inc. ....	85
Henry Valve Co. ....	4
Highside Chemicals Co. ....	22
Imperial Brass Mfg. Co. ....	7
Jarrow Products .....	81
Joliet Chemicals, Ltd. ....	63
Justrite Mfg. Co. ....	82
Kelvinator (Div. of Nash-Kelvinator Corp.).....	20
Kerotest Mfg. Co. ....	67
Keystone Engineering Corp. ....	96
Kinetic Chemicals, Inc. ....	53
Kold-Hold Manufacturing Co. ....	55
Kramer Co., Fred C. ....	79
Kramer-Trenton Co. ....	61
Lynch Mfg. Corp. ....	14
Mills Industries, Inc. ....	69
Minerallac Electric Corp. ....	82
Minneapolis-Honeywell Regulator Co. ....	13
McIntire Connector Co. ....	17
Modern Gas Co., Inc. ....	71
Mueller Brass Co. ....	57
New Duty .....	87
Nobs Chemical Co. ....	84
Peerless of America, Inc. ....	11
Ranco, Inc. ....	18
Refrigeration Control Service.....	84
Refrigeration Maintenance Corp. ....	73
Refrigeration Service, Inc. ....	87
Sanitary Refrigerator Co. ....	79
Servel, Inc. ....	83
Service Parts Co. ....	86
Skasol Corp. ....	65
Stangard Dickerson Corp. ....	81
Superior Valve & Fittings Co. ....	15
Temprite Products Corp. ....	10
Tedward Co., The.....	81
Thermal Co., Inc. ....	83
United Speedometer Repair Co. ....	86
Utilities Engineering Institute.....	88
Utility Thermostat Co. ....	84
Virginia Smelting Co. ....	6
Western Thermal Equipment Corp. ....	77
White Rodgers Electric Co. ....	16
Wilson Refrigeration, Inc. ....	85

## Classified Ads

Rate: Two Dollars for fifty words or less, 30 cents for each additional ten words or less.

**FOR SALE**—Remanufactured air and water-cooled condensing units.  $\frac{3}{4}$  h.p. up to  $1\frac{1}{2}$  h.p. Frosted food & ice cream cabinets. Edison Cooling Corp. 310 East 149th St., New York 51, N.Y.

**INCOME TAX PAYERS**—You can save by being prepared. Get our Copyrighted Income Tax Record. No books to read. Easy to understand. Schedules and how to figure include Business, Rental Property, Rental Property partly occupied by Owner, Medical, Car and Truck, use of part of your residence for business and other vital information. Price \$1.00. Berman, Box 335, Worcester 1, Mass.

**COMMERCIAL APPLICATION & SERVICE ENGINEERS**—Large refrigeration firm with growing export business has openings in several territories for qualified refrigeration application and service engineers. Knowledge foreign languages helpful. Write giving full details, experience and references. Address Box SP-2, The Refrigeration Service Engineer, 435 N. Waller Ave., Chicago 44, Ill.

**POSITION WANTED**—All around service man wants refrigeration work anywhere in the States. Am capable in any type of work. Many years experience on all types of equipment. At present doing service work on Navy ships at Pearl Harbor. Would prefer factory field service. Have family in mid-west. Would consider foreign field if proposition good enough. Can do any type of copper construction. Address Box DC-1, The Refrigeration Service Engineer, 433 N. Waller Ave., Chicago 44, Ill.

## SET IT and FORGET IT PRESSURE—TEMPERATURE CHART

For all types of commercial installations  
**SAVES SERVICE TIME**  
Send one dollar to  
**PAUL F. MILLER**

Nazareth R. D. No. 3 Penna.

**If you have equipment to sell,  
use R.S.E. WANT ADS for quick  
action.**

## SERVICE MEN— ADDED PROFITS ARE POSSIBLE

Eliminate the lost time from service calls by using our repair service on compressors. We specialize in prompt efficient workmanship on your compressor repairs. 90 day guarantee—Reasonable prices.

We do not repair Hermetic units.

Write for quotations to

**Keystone Engineering Corp.**  
844 Keystone Ave., Chicago 51, Ill.  
Phone: BELmont 5435

